

0550  
1108

#4

OIKE

## RAW SEQUENCE LISTING

DATE: 11/21/2001

PATENT APPLICATION: US/09/818,066

TIME: 12:09:10

Input Set : N:\Crf3\RULE60\09818066.txt

Output Set: N:\CRF3\11212001\I818066.raw

## SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Shuping Tong et al.

8 (ii) TITLE OF INVENTION: HEPADNAVIRUS RECEPTOR

10 (iii) NUMBER OF SEQUENCES: 75

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: Fish & Richardson P.C.

14 (B) STREET: 225 Franklin Street

15 (C) CITY: Boston

16 (D) STATE: Massachusetts

17 (E) COUNTRY: U.S.A.

18 (F) ZIP: 02110-2804

20 (v) COMPUTER READABLE FORM:

21 (A) MEDIUM TYPE: Floppy disk

22 (B) COMPUTER: IBM PC compatible

23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

26 (vi) CURRENT APPLICATION DATA:

C--> 27 (A) APPLICATION NUMBER: US/09/818,066

C--> 28 (B) FILING DATE: 27-Mar-2001

34 (C) CLASSIFICATION:

31 (vii) PRIOR APPLICATION DATA:

32 (A) APPLICATION NUMBER: US 08/683,262

33 (B) FILING DATE: 18-JUL-1996

36 (viii) ATTORNEY/AGENT INFORMATION:

37 (A) NAME: Fraser, Janis K.

38 (B) REGISTRATION NUMBER: 31,819

39 (C) REFERENCE/DOCKET NUMBER: 00786/287002

41 (ix) TELECOMMUNICATION INFORMATION:

42 (A) TELEPHONE: (617) 542-5070

43 (B) TELEFAX: (617) 542-8906

44 (C) TELEX: 200154

46 (2) INFORMATION FOR SEQ ID NO: 1:

48 (i) SEQUENCE CHARACTERISTICS:

49 (A) LENGTH: 27 base pairs

50 (B) TYPE: nucleic acid

51 (C) STRANDEDNESS: single

52 (D) TOPOLOGY: linear

54 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

56 GCAGATCTAT GGGCAGAATC TTTCCAC

58 (2) INFORMATION FOR SEQ ID NO: 2:

60 (i) SEQUENCE CHARACTERISTICS:

61 (A) LENGTH: 25 base pairs

62 (B) TYPE: nucleic acid

63 (C) STRANDEDNESS: single

64 (D) TOPOLOGY: linear

66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

ENTERED

27

## RAW SEQUENCE LISTING

DATE: 11/21/2001

PATENT APPLICATION: US/09/818,066

TIME: 12:09:10

Input Set : N:\Crf3\RULE60\09818066.txt

Output Set: N:\CRF3\11212001\I818066.raw

68	GTGAATTCAG CGCAGGGTCC CCAAT	25
71	(2) INFORMATION FOR SEQ ID NO: 3:	
73	(i) SEQUENCE CHARACTERISTICS:	
74	(A) LENGTH: 28 base pairs	
75	(B) TYPE: nucleic acid	
76	(C) STRANDEDNESS: single	
77	(D) TOPOLOGY: linear	
79	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
81	TCAGATCTAT GATGGGGCAA CATCCAGC	28
83	(2) INFORMATION FOR SEQ ID NO: 4:	
85	(i) SEQUENCE CHARACTERISTICS:	
86	(A) LENGTH: 30 base pairs	
87	(B) TYPE: nucleic acid	
88	(C) STRANDEDNESS: single	
89	(D) TOPOLOGY: linear	
91	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
93	GCGAATTCAG GTACCAGACA TTTTCTTCTT	30
95	(2) INFORMATION FOR SEQ ID NO: 5:	
97	(i) SEQUENCE CHARACTERISTICS:	
98	(A) LENGTH: 27 base pairs	
99	(B) TYPE: nucleic acid	
100	(C) STRANDEDNESS: single	
101	(D) TOPOLOGY: linear	
103	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
105	GCGAATTCTT ATTCCTAACT CTTGTAA	27
107	(2) INFORMATION FOR SEQ ID NO: 6:	
109	(i) SEQUENCE CHARACTERISTICS:	
110	(A) LENGTH: 20 base pairs	
111	(B) TYPE: nucleic acid	
112	(C) STRANDEDNESS: single	
113	(D) TOPOLOGY: linear	
115	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
117	GARYTNTAYG TNATGGAGAT	20
119	(2) INFORMATION FOR SEQ ID NO: 7:	
121	(i) SEQUENCE CHARACTERISTICS:	
122	(A) LENGTH: 23 base pairs	
123	(B) TYPE: nucleic acid	
124	(C) STRANDEDNESS: single	
125	(D) TOPOLOGY: linear	
127	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
129	AAYTCNGGYT CNCCNGCYTC RTG	23
131	(2) INFORMATION FOR SEQ ID NO: 8:	
133	(i) SEQUENCE CHARACTERISTICS:	
134	(A) LENGTH: 21 base pairs	
135	(B) TYPE: nucleic acid	
136	(C) STRANDEDNESS: single	
137	(D) TOPOLOGY: linear	
139	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
141	TKYTNAGYCA YGARTTYCAR G	21

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/818,066

DATE: 11/21/2001

TIME: 12:09:10

Input Set : N:\Crf3\RULE60\09818066.txt

Output Set: N:\CRF3\11212001\I818066.raw

```

143 (2) INFORMATION FOR SEQ ID NO: 9:
145     (i) SEQUENCE CHARACTERISTICS:
146         (A) LENGTH: 20 base pairs
147         (B) TYPE: nucleic acid
148         (C) STRANDEDNESS: single
149         (D) TOPOLOGY: linear
151     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
153 TTKGCNGART ANARNGTYTC                                     20
155 (2) INFORMATION FOR SEQ ID NO: 10:
157     (i) SEQUENCE CHARACTERISTICS:
158         (A) LENGTH: 20 base pairs
159         (B) TYPE: nucleic acid
160         (C) STRANDEDNESS: single
161         (D) TOPOLOGY: linear
163     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
165 ATGAAACAGA CACTGAAGAA                                     20
167 (2) INFORMATION FOR SEQ ID NO: 11:
169     (i) SEQUENCE CHARACTERISTICS:
170         (A) LENGTH: 20 base pairs
171         (B) TYPE: nucleic acid
172         (C) STRANDEDNESS: single
173         (D) TOPOLOGY: linear
175     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
177 ATGGAGATCT CGGACGGCCC                                     20
179 (2) INFORMATION FOR SEQ ID NO: 12:
181     (i) SEQUENCE CHARACTERISTICS:
182         (A) LENGTH: 20 base pairs
183         (B) TYPE: nucleic acid
184         (C) STRANDEDNESS: single
185         (D) TOPOLOGY: linear
187     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
189 TTCTTCAGTG TCTGTTTCAT                                     20
192 (2) INFORMATION FOR SEQ ID NO: 13:
194     (i) SEQUENCE CHARACTERISTICS:
195         (A) LENGTH: 9 amino acids
196         (B) TYPE: amino acid
197         (D) TOPOLOGY: linear
199     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
201 Gly Ser Arg Arg Ala Ser Val Gly Ser
202 1      5
204 (2) INFORMATION FOR SEQ ID NO: 14:
206     (i) SEQUENCE CHARACTERISTICS:
207         (A) LENGTH: 30 base pairs
208         (B) TYPE: nucleic acid
209         (C) STRANDEDNESS: single
210         (D) TOPOLOGY: linear
212     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
214 ATCACTGAGC TCAAATTACC CCATGAGATG                         30
216 (2) INFORMATION FOR SEQ ID NO: 15:

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/818,066

DATE: 11/21/2001

TIME: 12:09:10

Input Set : N:\Crf3\RULE60\09818066.txt

Output Set: N:\CRF3\11212001\I818066.raw

```

218      (i) SEQUENCE CHARACTERISTICS:
219          (A) LENGTH: 30 base pairs
220          (B) TYPE: nucleic acid
221          (C) STRANDEDNESS: single
222          (D) TOPOLOGY: linear
224      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
226 GGAAACTCGA GCTGGAAGCA GTGTTATGAA
228 (2) INFORMATION FOR SEQ ID NO: 16:
230      (i) SEQUENCE CHARACTERISTICS:
231          (A) LENGTH: 33 base pairs
232          (B) TYPE: nucleic acid
233          (C) STRANDEDNESS: single
234          (D) TOPOLOGY: linear
236      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
238 ATGGTACCAT GGAGGCGGCG CGGTGCATCG AGC
241 (2) INFORMATION FOR SEQ ID NO: 17:
243      (i) SEQUENCE CHARACTERISTICS:
244          (A) LENGTH: 31 base pairs
245          (B) TYPE: nucleic acid
246          (C) STRANDEDNESS: single
247          (D) TOPOLOGY: linear
249      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
251 ATCTCGAGAT ATTAACATTA GCAATGTTAC T
254 (2) INFORMATION FOR SEQ ID NO: 18:
256      (i) SEQUENCE CHARACTERISTICS:
257          (A) LENGTH: 16 amino acids
258          (B) TYPE: amino acid
259          (D) TOPOLOGY: linear
261      (ii) MOLECULE TYPE: protein
263      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
265 Gln Trp Thr Pro Glu Asp Gln Lys Ala Arg Glu Ala Phe Arg Arg
266  1      5      10      15
268 (2) INFORMATION FOR SEQ ID NO: 19:
270      (i) SEQUENCE CHARACTERISTICS:
271          (A) LENGTH: 27 amino acids
272          (B) TYPE: amino acid
273          (D) TOPOLOGY: linear
275      (ii) MOLECULE TYPE: protein
277      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
279 Ser Val Glu Leu Arg Glu Leu Tyr Val Met Glu Ile Ser Asp Asn Pro
280  1      5      10      15
282 Gly Val His Glu Ala Gly Glu Pro Glu Phe Lys
283      20      25
285 (2) INFORMATION FOR SEQ ID NO: 20:
287      (i) SEQUENCE CHARACTERISTICS:
288          (A) LENGTH: 20 amino acids
289          (B) TYPE: amino acid
290          (D) TOPOLOGY: linear
292      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/818,066

DATE: 11/21/2001

TIME: 12:09:10

Input Set : N:\Crf3\RULE60\09818066.txt

Output Set: N:\CRF3\11212001\I818066.raw

294 Leu Ile Asp Arg Thr Arg Ile Val Ile Val Pro Ser Leu Asn Pro Asp  
 295 1 5 10 15

297 Gly Arg Ile Ala

298 20

300 (2) INFORMATION FOR SEQ ID NO: 21:

302 (i) SEQUENCE CHARACTERISTICS:

303 (A) LENGTH: 22 amino acids

304 (B) TYPE: amino acid

305 (D) TOPOLOGY: linear

307 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

309 Ser Leu Leu Ser His Glu Phe Gln Asp Glu Thr Asp Thr Glu Glu Glu

310 1 5 10 15

312 Thr Leu Tyr Ser Ala Lys

313 20

315 (2) INFORMATION FOR SEQ ID NO: 22:

317 (i) SEQUENCE CHARACTERISTICS:

318 (A) LENGTH: 13 amino acids

319 (B) TYPE: amino acid

320 (D) TOPOLOGY: linear

322 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

324 Val Glu Glu Gly Lys Val Pro Val Leu Asn Thr Pro Asp

325 1 5 10

327 (2) INFORMATION FOR SEQ ID NO: 23:

329 (i) SEQUENCE CHARACTERISTICS:

330 (A) LENGTH: 22 amino acids

331 (B) TYPE: amino acid

332 (D) TOPOLOGY: linear

334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

336 Glu Leu Tyr Val Met Glu Ile Ser Asp Asn Pro Gly Val His Glu Ala

337 1 5 10 15

339 Gly Glu Pro Glu Phe Lys

340 20

342 (2) INFORMATION FOR SEQ ID NO: 24:

344 (i) SEQUENCE CHARACTERISTICS:

345 (A) LENGTH: 66 base pairs

346 (B) TYPE: nucleic acid

347 (C) STRANDEDNESS: single

348 (D) TOPOLOGY: linear

350 (ix) FEATURE:

355 (A) NAME/KEY: misc\_feature

352 (B) LOCATION: 3..3

353 (D) OTHER INFORMATION: /note= "R is A or G."

375 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

377 GARTNTAYG TNATGGARAT WAGYGAYAA YCCNGGNGTNC AYGARGCNGG NGARCCNGAR

60

379 TTAAAR

66

381 (2) INFORMATION FOR SEQ ID NO: 25:

383 (i) SEQUENCE CHARACTERISTICS:

384 (A) LENGTH: 66 base pairs

385 (B) TYPE: nucleic acid

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/818,066

DATE: 11/21/2001

TIME: 12:09:11

Input Set : N:\Crf3\RULE60\09818066.txt

Output Set: N:\CRF3\11212001\I818066.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:1982 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:1986 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:1990 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:1994 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:1998 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2002 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2006 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2010 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2014 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2018 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2022 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2026 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2030 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2034 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2038 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2042 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2046 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2050 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2054 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2058 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2062 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2066 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2070 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2074 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:63  
L:2175 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2179 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2183 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2187 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2191 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2195 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2199 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2203 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2207 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2211 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:65  
L:2369 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=74